INDEX.

PAGE.

Acid Effusives, New Brunswick. 195
Acrothele Matthewi, var. costata. 128
Acrotreta Gemma..... 126
Acrotreta gemmula..... 126
Agraulos strenuus, horizon of... 102
Alligator, Breeding habits of..... 62
Anthracite of Pennsylvania, Origin of 100
Anthony, R. A., elected resident member 220
Anthrocerina..... 54
Aparchites secunda..... 136
Arizona Plants, Enumeration of 21
Astor, John Jacob, elected resident member..... 48
Astrocladia, three species..... 113
Astronomy Section Officers Elected 154
Astronomical Photographs, Measuring Apparatus for..... 7
Atlantic Coastal Plain Strata, dislocations in..... 8
Augite-porphyrite 215
Avalonia Acadica..... 140

Bacillus Lactis Erythrogenes..... 96
Bacteria of New York 80
Bacteria, Variations in Biological Characters of two Species 96
Base of the Cambrian Rocks..... 104
Basic Effusives, New Brunswick. 196
Bergeronia elegans..... 146
Bergeronia articephales..... 146
Beyrichona, papilio, tinea, planata 134
Beyrichona, triangula, rotundata, ovata.....135, 136
Biceps Flexor Cubiti, Insertion of 234
Biceps Flexor Cubiti, Morphology of 230
Biceps Flexor Cubiti, Origin of. 234
Brachiopoda of Protolenus Fauna 113
Brauner, Bohuslav, Ph. D., elected corresponding member..... 48
Bridgham, Samuel W., elected resident member..... 154
Bristol, Charles L., elected resident member..... 65
British Assoc. Oxford Meeting... 45
Botsfordia pulchra..... 115
Bryograptus (?) retroflexus (?).. 271
Bryograptus lentus..... 270
Bryograptus patens..... 268
Bryograptus spinosus..... 269
Bryograptus, horizon and locality..... 269
Bryograptus lentus, horizon and locality 270

Callograptus, horizon and locality 271
Callograptus, Hall..... 271
Cambrian Strata, near St. John, N. B..... 20
Cauchy's Formulæ for Metallic Reflection to Platinum, Application of..... 175
Carborundum, Notes on..... 67
Catfish of South America..... 21
Center, Robert, elected resident member..... 154
Chapin, Chester W., elected resident member..... 220
Characinidæ of South America.. 21
Cherts of Missouri, Microscopic structure of..... 63
Chladni's figures..... 70
Clonograptus, Hall, 1843..... 265
Clonograptus, horizon and locality..... 267
Coastal sub group..... 193
Coldbrook sub group..... 192
Coleoides typicalis?..... 129
Color Photography..... 185
Color of Images, Difference in... 178
Columbia College collecting party..... 101

PAGE.

Committee of Annual Reception. 65
Committee Audubon Monument 91
Comparison of the Theories of Mountain-making Forces and Ice Action..... 17
Condition of Interior of the Earth..... 72
Conocoryphe not in Protolenus Fauna..... 150
Conocoryphe special to Lower Paradoxides Beds..... 150
Continuous eyelobes, trilobites with..... 139
Cossina (Microlepidoptera)..... 53
Coster, C. H., elected resident member..... 220
Crumplings of Clays..... 20

Dana, James Dwight, Memorial of..... 260
Devil's Corkscrew.....66, 79
Diabase..... 201
Diabase..... 213
Diatome Structure..... 71
Dichoplectella..... 112
Dickerson, E. N., elected resident member..... 220
Dictyonema flabelliforme, Eichwald 272
Diplotheca hyattiana..... 130
Diorite-Porphyrite..... 210
Discussion of Beats and Beattones..... 47
Discussion of Facts in Connection with the line of the Terminal Moraine..... 11
Dominion Government Survey Reports..... 191
Dyckman, Mr. Isaac M., elected resident member..... 68
Dykes..... 210

Earle, H. Deforest, elected resident member..... 220
Echinoderms, Fertilization of ... 45
Effusive and Dyke Rocks near St. John, N. B..... 187
Effusive and Dyke Rocks of St. John, Literature of..... 188
Effusive Rocks of St. John..... 195
Electrical Resistance, Range and Accuracy in Measurement of.. 65
Electric Stations, fly wheel accidents..... 65

PAGE.

Ellipsocephalus galeatus, grandis 139, 140
Embryonic Baculites from the Black Hills..... 63
Embryology, Newer Problems of..... 76
Eta Cassiopeiæ, Parallax of..... 87
Etcheminian Series, older than St. John group in N. Brunswick and Newfoundland..... 105
Etcheminian sub group..... 194
Evolution of Horns..... 62
Excretory System and Origin of Pigment in Nephelis and Clepsine 67

Farrand, Dr. Livingston, elected resident member..... 93
Faunas of the Cambrian 109
Faunas of Atlantic Coast..... 103
Faunas in New Brunswick..... 104
Faunas (Sub-) of Band *b.* of St. John Group..... 101
Felsite Porphyry of St. John..... 197
Fertilization and Early Development of the Ovum..... 185
Flora of Arizona..... 21
Fluoplumbic Acid and Lead Tetrafluoride 4
Fluoplumbates 1
Foraminifera of Protolenus Fauna 109
Ford, James B., elected resident member 220
Frenatæ..... 51
Fresnel's Formulæ for Vitreous Reflections, Application of.. 172
Frost Effects and Sulphate of Soda Efflorescence Shown in Building Stones..... 67

Galen's Treatise upon Practical Anatomy and Experimental Physiology..... 66
Gasteropoda of Protolenus Fauna 151
Geological Section of East River Tunnel.....64, 273
Gesner's Survey..... 190
Gland Cells, Mechanism of Secretion in 94
Globigernia, cambrica, grandis, didyma, turrita..... 111
Gnawed Beaver Sticks..... 6
Gold and Iron, Experiments upon 182

PAGE.
Golgi Method in Nerve-Histology 71
Gould, Edwin, elected resident member..... 277
Granite, Diorite of N. Y. 80
Graptolites at Navy Island..... 264
Graptolites from the Cambrian, New forms of..... 165
Green Hornblende 206

Hairless Mouse of California 45
Hyolithellus micans?..... 129
Hyolithes, cf. princeps, americanus, cf. obtusa, decipiens, gracilior.....129, 130
Hipponicharion eos, cavatum, minus..... 132
Hoffman, Rev. E. A., D. D., elected resident member.... 220
Holt, Henry, elected resident member 220
Huronian 194

Iles, Mr. George, elected resident member 93
Illumination for Photo-Micrography, Sources of 71
Infra-red Spectrum of the Sun, Researches in..... 93
Instrument for Quantitative Experiment, Accuracy of..... 167
Instrument for Quantitative Experiment, Adjustment of ... 166
Instrument for Quantitative Experiments..... 163
Interior of Earth, discussion..... 86
Invested Funds, Management of 92

Jugateæ 50

Kane, S. Nicholson, elected resident member 154
Kingston Group 209
Kingston (sub group) 193

Larval prolegs 49
Lamborn, Robert H 72
Laurentian Rocks, Notes on..... 21
Laurentian Series.....192 and 194
Lawrence, Mr. George N.....71–72
Lead Disulphate..... 5
Leeches Excreting, System of ... 79
Lembke, Charles F., elected resident member 154

PAGE.
Leperditia (?)ventricosa, Steadi, minor, primœva 137
Lepiditta sigillata..... 138
Lepidosteus Breeding, habits of.. 45
Lepidopterus Larvæ, Classification of 47
Librarian, Report of..... 90
Lingulella martinensis cf. granvillensis 113
Lingulella (?) cœlata, inflata, ovalis..... 126
Linnarssonia transversa..... 125
List of Species of Band b (Protolenus Fauna) 148

Macy, Chas. A., 2d. elected resident member..... 154
Marié, Peter, elected resident member 154
Measurements of Air Effects... 169
Merismopedia Rosea 94
Mesabi Iron Range of Minnesota 47
Metamorphism..... 203
Methods of deducing Motions of Fifty-six Stars, etc..... 68
Meyer, Thomas C., elected resident member..... 154
Micmacca Matthevi, van Ingeni, recurva (?) plana.....141, 142
Miocene Deposits of White River group..... 187
Microcline in Granite Diorite... 84
Microdiscus, not in Protolenus Fauna..... 150
Mollusca of Protolenus Fauna... 129
Monadites..... 112
Mounds and Mound-builders of Ohio..... 67
Motion for Arrangements for 2d Annual Reception..... 48
Mummied Fishes..... 63
Muscle Brachio-ulnaris Medialis 252
Muscle Brachio-ulnaris lateralis.. 248
Muscle Combinations..... 249
Muscle, complete type form of... 235
Muscle, Coraco-Epitrochlearis ... 251
Muscle, Coracoid Heads..... 258
Muscle, Coraco-radial 236
Muscle, Coraco-radial and Coraco-ulnar 238
Muscle, Coraco-radial and Gleno-ulnar..... 238
Muscle, Coraco-ulnar..... 236
Muscle, Coraco-ulnar Head..... 250

PAGE.

Muscle, Glenoid Heads..... 257
Muscle, Gleno-radial..... 236
Muscle, Gleno-radial and Coraco-radial 237
Muscle, Gleno-radial and Gleno-ulnar..... 237
Muscle, Gleno-ulnar..... 236
Muscle, Gleno-radial and Coraco-ulnar..... 238
Muscle, Gleno-ulnar 243
Muscle, Gleno-ulnar, head..... 241
Muscle Relation of Biceps..... 254

New Brunswick, Volcanic Rocks 216
Nocturna..... 56

Obolella nitida..... 125
Obolus pristinus..... 121
Obolus pulcher..... 115
Observations for Variations of Latitude made at Columbia College and the Royal Observatory at Naples..... 7
Officers, Election of..... 72
Olenellus not in Protolenus Fauna..... 150
Orbulina, cf. universa, ovalis, ingens, intermedius..... 109
Orthid..... 128
Orthaclase in Granite Diorite.... 83
Orthotheca, cf. Emmonsi..... 129
Ostracoda of Protolenus Fauna. 132

Parker, Herschell C., elected resident member..... 220
Peary, Lieut., Relief Expedition for 100
Pelagiella atlantoides..... 131
Peridotite, Intrusion..... 86
Perpetuation of Names of Men of Science by Municipal Government of Paris in Nomenclature of Streets... 46
Petrographical, Notes on Rocks from Alaska..... 185
Pfister, J. C., elected resident member..... 48
Phœnix Lloyd, elected resident member..... 154
Photo-Micrographs..... 71
Phosphorescent Diamonds 260
Plagioclase in Granite Diorite... 82
Plant Evolution..... 49
Platinum, Experiments upon... 174

PAGE.

Pre-Cambrian, Classification of. 195
Pre-Cambrian, Upper Limit of.. 194
Pre-Cambrian Volcanic Rocks... 189
Polarization of Light, Arago's Explanation..... 158
Polarization of Light Emitted by Incandescent Solid and Liquid Surfaces, Study of... 155
Polarization of Light, Historical Review 156
Polarization of Light, Qualitative Experiments..... 160
Porphyrites 203
Post, George B., elected resident member..... 154
Primitia aurora, oculata, fusiformis 136, 137
Principal Lines of Disturbance in Certain Portions of Atlantic Coastal Plain..... 9
Protagraulos priscus..... 139
Protolenus Fauna (by title)..... 100
Protolenus Fauna, more primitive and more pelagic than that of Olenellus..... 102
Protolenus Fauna, possibly contemporaneous with the Fauna of Olenellus..... 102
Protolenus paradoxoides, bituberculatus 145
Protospongia 112
Ptychoparidæ, not in the Protolenus Fauna..... 150
Publication Fund, Money for... 92
Pyroxenes of New York State (by title)..... 100

Quartz in Granite Diorite..... 81
Quartz-Porphyry of St. John.... 196

Ranunculus from Virginia..... 79
Recording Secretary, Report of. 87
Redfield, Mr. J. H., Memorial Committee 100
Redfield, Mr. J. H., Memorial of 186
Reproductions of Rock Sections in Polarized Light Photographed 64
Resignation of Prof. Osborn..... 45
Rhizobia, Occurrence and Functions of 79
Rhopalocera 60
Rocks, Effusive and Dyke, near St. John, N. B. (by title).... 100

PAGE.
Royal Society, Committee to Aid in Work of..... 99

Saturnina (Bombycina)..... 54
Schmidtella cambrica..... 137
Science of Mechanics, Historical Sketch of Development..... 64
Scientific Alliance..... 78
Seals, Babylonian, Assyrian, Sassanian, Minerals Used in.... 87
Seaweed from Trenton Rocks of Wisconsin..... 63
Sea urchin Fertilization..... 71
Section of Cambrian Rocks at Hanford Brook..... 106
Sectional Committee Appointed. 46
Sectional Officers..... 100
Sectional Officers, Election of.... 45
Senff, Charles H., Elected Resident Member..... 220
Serpentine, Associated with the Red Hematite, at Antwerp, N. Y..... 64
Silver, Experiments upon..... 180
Sketch Map of Cambrian at Hanford Brook..... 108
Soda-Granite..... 204
Soda-Granite, Microscopic Characters of..... 205
Soda-Granites, Analyses of..... 207
Species of Band *b* (Protolenus Fauna), List of..... 148
Sphingina..... 59
Spiders of Colorado (by title)... 100
Spongida of Protolenus Fauna.. 112
Standard Sizes for Drawers and Trays.....65, 66, 67
Starr, Prof. M. Allen, elected resident member..... 65
Stars, Mean Declination of 56, Observed for Variation of Latitude at Naples and New York..... 87
Stentor, Phenomenon in Life-History of..... 49
Stetson, Francis Lynde, elected resident member..... 220

PAGE.
Stratford, Prof. Wm, elected resident member..... 68
Subfaunas of Band *b*, St. John Group..... 105
Summer Experiences of Prof. Mayer..... 7
Sunspots, Penumbras of..... 77
Sunspots, Pictures of..... 78

Tendencies of Recent Electrical Research..... 153
Tendon, Capsula-intermediate... 250
Tendon, Capsula-pectoral..... 241
Tendon, Gleno-Epitrochlear..... 247
Thompson, Prof. W. Gilman, elected resident member... 93
Titanotheres, Skull Structure.... 62
Topographical Map of State, Preparation of..... 91
Toxopneustes..... 185
Toxopneustes Fertilization, Phenomenon of..... 99
Treasurer, Report of..... 88
Trematobolus insignis..... 122
Trilobita of Protolenus Fauna.. 138
Tropical Birds, Habits of..... 66
Tuning Forks, Method of Comparing Pitch of..... 76

Uranium Glass, Experim'ts upon 169
Unrecognized Families of Larvæ 61

Vacuum Pump, Automatic Mercury..... 78
Ventro-appendicular Muscular Sheet, intermediate layer of 233
Ventro-appendicular Muscular Sheet, deep layer of..... 233
Ventro-appendicular muscular Sheet, Superficial layer of. 233
Volcanic Comparisons..... 209
Volborthella tenuis..... 132

Wade, Herbert T., elected resident member..... 220
Water Bath of Copper..... 79

Yolk Nucleus, Literature on..229–230